

1 Attorney Docket No. 83843

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3 **TOWABLE SUBMARINE MAST SIMULATOR**

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5 **ABSTRACT OF THE DISCLOSURE**

6 A submarine mast simulator as part of a buoyant tow body  
7 having a hydrodynamically shaped shell. The mast simulator  
8 includes a rigid lower mast section and an inflatable upper  
9 mast section extendable from the tow body. A plurality of  
10 stabilizer fins extend radially from the tail of the tow body,  
11 the fins being actuated to cause the ascent and descent of the  
12 tow body. A pressure sensor is positioned on an outer surface  
13 of the tow body for detecting a depth of the tow body, and a  
14 motor with controller is housed within the tow body, the  
15 controller initiating extension of the mast simulator in  
16 response to a depth indication.